

## **AMENDMENTS TO THE CLAIMS**

- 1-7. **(CANCELED)**
8. **(CURRENTLY AMENDED)** A cable connector comprising:
- a. a male connector including:
    - (1) a magnetic core;
    - (2) a male connector coil wound about the magnetic core, and
    - (3) a male connector housing surrounding the male connector coil and core,  
**wherein the male connector housing is spaced from the male connector coil by solid synthetic material, the solid synthetic material filling the male connector housing about the male connector coil and the magnetic core;**
  - b. a female connector including:
    - (1) a female connector housing having a female connector aperture therein sized to closely receive the male connector housing, and
    - (2) a female connector coil at least partially surrounding the aperture,  
wherein the male connector coil is situated within and spaced from the female connector coil when the male connector housing is inserted within the female connector aperture.
9. **(PREVIOUSLY PRESENTED)** The cable connector of claim 8 wherein the male connector coil is in electrical communication with an ultrasound probe.
10. **(PREVIOUSLY PRESENTED)** The cable connector of claim 8 wherein:
- a. the male connector is situated at a first end of a cable, and
  - b. the second end of the cable is connected to an ultrasound probe.
11. **(CANCELED)**

12. **(PREVIOUSLY PRESENTED)** The cable connector of claim 8 wherein the male connector coil has coil ends connected to a first end of a cable, the first end of the cable being situated within the male connector housing, and wherein the interior of the male connector housing is filled with solid synthetic material to surround the coil ends and the first end of the cable.
13. **(PREVIOUSLY PRESENTED)** The cable connector of claim 8:
  - a. further comprising a cable having a first end connected to the male connector coil, the first end of the cable being situated within the male connector housing; and
  - b. wherein the first end of the cable, the male connector coil, and the magnetic core are spaced from the male connector housing by solid synthetic material, the solid synthetic material restraining the first end of the cable, the male connector coil, and the magnetic core in fixed relationship.
14. **(PREVIOUSLY PRESENTED)** The cable connector of claim 8 wherein the male connector coil is a single-layer coil.
15. **(PREVIOUSLY PRESENTED)** The cable connector of claim 14 wherein the female connector coil is a single layer coil.
16. **(PREVIOUSLY PRESENTED)** The cable connector of claim 8 wherein:
  - a. further comprising a cable having:
    - (1) a first end connected to the male connector coil, the first end of the cable being situated within the male connector housing; and
    - (2) a second end connected to an ultrasound probe,
  - b. the first end of the cable, the male connector coil, and the magnetic core are spaced from the male connector housing by solid synthetic material, the solid synthetic material restraining the first end of the cable, the male connector coil, and the magnetic core in fixed relationship.

17. **(PREVIOUSLY PRESENTED)** The cable connector of claim 16 wherein the male connector coil is a single-layer coil.
18. **(PREVIOUSLY PRESENTED)** The cable connector of claim 17 wherein the female connector coil is a single layer coil.
19. **(NEW)** The cable connector of claim 8 wherein:
  - a. the male connector housing has an exterior surface with an outer circumference decreasing toward a tip, and
  - b. the female connector aperture of the female connector housing decreases along its depth,whereby the decreasing outer circumference of the exterior surface of the male connector housing is at least substantially complementarily received within the female connector aperture.

20. **(NEW)** A cable connector comprising:
- a. a male connector including:
    - (1) a magnetic core;
    - (2) a male connector coil wound about the magnetic core, and
    - (3) a male connector housing surrounding the male connector coil and core;
  - b. a female connector including:
    - (1) a female connector housing having a female connector aperture therein sized to closely receive the male connector housing, and
    - (2) a female connector coil at least partially surrounding the aperture, wherein the male connector coil is situated within and spaced from the female connector coil when the male connector housing is inserted within the female connector aperture;
  - c. a cable having a first end connected to the male connector coil within the male connector housing,
- wherein the interior of the male connector housing is filled with solid synthetic material to surround the coil ends and the first end of the cable.
21. **(NEW)** The cable connector of claim 20 wherein the male connector coil is in electrical communication with an ultrasound probe.
22. **(NEW)** The cable connector of claim 20 wherein the cable has a second end connected to an ultrasound probe.
23. **(NEW)** The cable connector of claim 20 wherein the solid synthetic material fills the male connector housing about the male connector coil and the magnetic core.
24. **(NEW)** The cable connector of claim 20 wherein the male connector coil is a single-layer coil.

25. **(NEW)** The cable connector of claim 20 wherein the female connector coil is a single layer coil.
26. **(NEW)** The cable connector of claim 20 wherein both the male connector coil and female connector coil are single layer coils.
27. **(NEW)** A cable connector comprising:
- a. a male connector including:
    - (1) a magnetic core;
    - (2) a male connector coil wound about the magnetic core, and
    - (3) a male connector housing surrounding the male connector coil and core;
  - b. a female connector including:
    - (1) a female connector housing having a female connector aperture therein sized to closely receive the male connector housing, and
    - (2) a female connector coil at least partially surrounding the aperture, wherein the male connector coil is situated within and spaced from the female connector coil when the male connector housing is inserted within the female connector aperture;
  - c. a cable having a first end connected to the male connector coil within the male connector housing,
- wherein the first end of the cable, the male connector coil, and the magnetic core are spaced from the male connector housing by solid synthetic material, the solid synthetic material restraining the first end of the cable, the male connector coil, and the magnetic core in fixed relationship.